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20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Signature

Style CF 17 LABEL ASTER ® (800) 621-5808 www.labelmaster.com

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

**GENERATOR COPY** 

Month Day



Printed/Typed Name

# Material Safety Data Sheet

# F006 Recydable Material (Filter Cake)

Recycler's Facility Name and Site Address:

# World Resources Company

8113 West Sherman Street
Phoenix, Arizona 85043-3000
Tel: 602-233-9166 Fax: 623-936-9164

Issued: 8/7/90 Revised: 8/5/99 DLS

Call CHEMTREC only in the event of emergencies during shipping that involve a spill, leak, fire, or acident (all calls are recorded).

For Emergencies During Shipping in the US or Canada, Day or Night, Cal: CHEMTREC 800-424-9300 (Use CHEMTREC Company Code "WORR") For calls from other countries call: 703-527-3887 Called

## Section 1

EPA Waste Classification: F006

Generic Name: Electroplating/Metal-Finishing Wastewater Treatment

Sludge

Chemical Family: Metallic (Hydroxide) Predipitates

Synonym: Non-ferrous Metal Hydroxide Filter Cake

Material Identification

DOT Shipping Name: RQ Hazardous waste solid, n.o.s. (F006)

DOT Hazard Class: 9; Packing Group: 111

DOT Identification Number: NA 3077

Guide 171 of the North American Emergency Response Guidebook

Applies

Section 2				Hazardous Ingredients
Ingredient:	CAS Number:	Content %:	ACGIH-TLV	Toxicology: (rat, oral)
Copper Hydroxide	20427-59-2	0 - 30	1.0 mg/m <sup>3</sup> (Dust)	LD-50 1.000 mg/kg
Nickel Hydroxide	12054-48-7	0 - 15	1.0 mg/m <sup>3</sup> (Dust)	LD-50 1,500 mg/kg
Caldum Hydroxide	1305-62-0	0 - 15	5.0 mg/m <sup>3</sup> (Dust)	LD-50 7,340 mg/kg
Amorphous Silica	61790-53-2	0 - 10	10.0 mg/m <sup>3</sup> (Dust)	LD-50 Not Determined

#### Section 3

Description: Solid, Clay-like, Gray/Green to Brown,

Water Content 30 - 80% Specific Gravity: 2.5 To 3.5

Solubility: Insoluble in Water

Incompatible Reactivity: None Known

Vapor Pressure: Insignificant
Stability: Avoid Contact With Adds
Polymerization: Will Not Occur

# Physical And Readivity Data

Density: 50 to 90 lbs/cu ft Boiling Point: Above 2600°C Metting Point: Above 1800°C

pH: 7.0 to 10.0

#### Section 4

Flashpoint: Nonflammable
Special Firefighting Procedures: None

Product Decomposition Que To Fire Or Explosion): None

Oxidation: Non-oxidizing Explosive: Non-Explosive

NFPA Fire Diamond



Fire And Explosion Data

Toxicity

#### Section 5

Listed Carainogen component: Nickel

Toxicology: See Sec. 2

Route of Entry. Inhalation and Ingestion

#### Section 6

Health Effects And First Aid

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

Ingestion: Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.

Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.

Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.

Long-Term: The effects of long-term chronic overexposure may affect the following target organs or body systems--blood, digestive, respiratory, lungs, liver, kidneys and skin.

kidney damage and metal-sensitive skin or skin lesions.

## Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent

Section 7

Precautions For Safe Handling

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment (PPE) be used by

personnel who will ome in contact with the material. The PPE should include eye protection, respirator and gloves.

Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover to protect from rain.

Spills: Use deaning procedures that avoid a eating excessive dust. Vacuum when possible. Package material and ship to World Resources Company at above address.

#### Section 8

Respiratory Protection: NICSH-MSHA approved respirators as required.

Other Protective Equipment: Coveralls are recommended, but not required.

Eye Protection: Safety Glasses recommended.

Hand Protection: Gloves recommended.

#### Section 9

# Generator's Verification

This MSDS is provided solely for informational purposes and no warranty or responsibility is extended even though reasonable precautions have been taken in the preparation of the data contained for this recyclable material. To the best of my knowledge this MSDS describes the recyclable material listed on the attached Manifest Number:

Telephone: 206-382-8379 Date:

Company Name and Address: <u>Alaskan Copper Works</u>

P.O. Box 3546, Seattle, WA 98124

Signature

**Recyalea** Paper

Control Measures



# LAND DISPOSAL RESTRICTION NOTICE

F006

EFFECTIVE 11/09/98

[A copy of this Notice must be retained by the Generator for at least three (3) years, pursuant to U.S. EPA Regulation 40 CFR §268.7(a)(8). Moreover, the Generator should check the hazardous-waste regulations of his/her own State, inasmuch as, if there is a State analogue to the federal regulation, it may require a longer retention time, such as five (5) years. It should also be noted that the federal regulation--and, typically, State analogues as well--requires the retention period to be extended further in specified cases.]

To: WORL	RESOURCES COMPANY		8113 West Sherman Street, Phoenix AZ 85043-3000					
From: COMPAN	IY NAME:		COMPANY ADDRESS:					
Alaskar	Copper Works		P.O. Box 3546, Seattle, WA 98124					
MANIFEST NUMBER:	01002		DATE SHIPMEN	1 / - 1/ / -/	)/			
•	nt of material is subject to esal restrictions of 40 CFR	EPA Mate Numb		Treatability Group	CFR Reference for Treatment Standards			
•	applicable land disposal	F006	,	40 CFR §268.40				
	information, provided in							
accordance wi	ith 40 CFR §268.7(a)(2), is	**********						
	as shown in this table:							
			<u> </u>					
SIGNATURE	: Soul Gold		TIT	LE: ENVIRONMEN	stal Spac.			
NAME PRINTED	: Gerald A. The	ompsow	DA.	TE:				

# Instructions for Completion of this Land Disposal Restriction Notice [LDRN]

This LDRN has been prepared based on a listed material--F006--as the primary designation of the material. This designation is based on information furnished by the Generator of the material. While it is believed to be accurate, it is the Generator's responsibility to determine whether his/her material is restricted from land disposal, and to correctly complete the LDR Notice (as stated in 40 CFR §268.7(a)(2)).

An F006 designation on the LDRN *includes* the following constituents: cadmium (D006), chromium (D007), lead (D008), silver (D011), cyanide, and nickel. However, the designation does *not* include arsenic (D004), barium (D005), mercury (D009), or selenium (D010). If your F006 material contains any of those four constituents not included in the F006 designation, then use the following instructions.

In determining the need for any additional entries on the LDRN for the F006 material, the levels of arsenic, barium, mercury and selenium must be examined to determine if the levels equal or exceed the threshold concentrations of constituents for the Toxicity Characteristic limit as identified in 40 CFR §261.24 (Table 1), as shown in the left-hand column of the table below (as stated in 40 CFR §268.9).

If (after testing or based upon the generator's knowledge of the material) each metal level does not equal the Toxicity Characteristic level shown below, then *no additional entry* is required on the LDR Notice. If the level is known to be or determined to be equal to or above the limit shown below for any of these metals, then the appropriate information corresponding to that individual metal (in the right-hand column below) *must be added* to the LDR Notice.

	E INFORMATION CHARACTERISTIC	APPROPRIATE ENTRY ON LDR NOTICE				
Metal	Concentration Level	EPA Material Number	Treatability Group	CFR Reference for Treatment Standard		
ARSENIC	5.0 mg/l	D004	non-wastewater	40 CFR §268.40		
BARIUM	100 mg/l	D005	non-wastewater	40 CFR §268.40		
MERCURY	.02 mg/l	D009	non-wastewater	40 CFR §268.40		
SELENIUM	1.0 mg/l	D010	non-wastewater	40 CFR §268.40		

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**.006 GENERATORS** 

### MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME Hazardous waste, solid, n.o.s., (F006), 9, NA3077, III



# TAKEN FROM GUIDE 171 OF THE NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK

(Underlined text applies directly to the material listed above)

### POTENTIAL HAZARDS

#### FIRE OR EXPLOSION

- 1. Some may burn, but none ignite readily.
- 2. Some may polymerize (P) explosively when heated or involved in a fire
- 3. Containers may explode when heated
- 4. Some may be transported hot

#### HEALTH

- 1.Inhalation of material may be harmful.
- 2.Contact may cause burns to skin and eyes
- 3. Inhalation of Asbestos dust may have a damaging effect on the lungs.
- Fire may produce irritating, corrosive and/or toxic gases.
- Runoff from fire control may cause pollution.

#### PUBLIC SAFETY

- 1. CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code "WORR")
- 2. isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions
- 3. Keep unauthorized personnel away
- 4.Stay upwind.

#### PROTECTIVE CLOTHING

- 1. Wear positive pressure self-contained breathing apparatus (SCBA).
- 2. Structural firefighters' protective clothing will only provide limited protection.

#### **EVACUATION**

1.If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

## FIRE

### **EMERGENCY RESPONSE**

#### Small Fires

1. Dry chemical CO2 water spray or regular foam.

#### Large Fires:

- 1. Water spray fog or regular foam
- 2. Move containers from fire area if you can do it without risk
- 3. Do not scatter spilled material with high pressure water streams.
- Dike fire-control water for later disposal.

# Fire Involving Tanks:

- 1. Cool containers with flooding quantities of water until well after fire is out.
- 2. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
  3.ALWAYS stay away from the ends of tanks

#### SPILL OR LEAK

- 1. Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- 3. Prevent dust cloud.
- 4. Avoid inhalation of asbestos dust

## Small Dry Spills

1. With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area

# Small Spills

- 1. Take up with sand or other noncompustible absorbent material and place into containers for later disposal Large Spills
- 1. Dike far ahead of liquid spill for later disposal.
- Cover powder spill with plastic sneet or tarp to minimize spreading
- 3. Prevent entry into waterways, sewers, pasements or confined areas

#### FIRST AID

- 1. Move victim to fresh air.
- 2.Call emergency medical care
   3.Apply artificial respiration if victim is not breathing.
- 4.Administer oxygen if breathing is difficult.
- 5.Remove and isolate contaminated clothing and shoes.
  6.In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.

7. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.



# GENERAL INTERNAL PURCHASE REQUISITION

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# GENERAL INTERNAL PURCHASE REQUISITION

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